

SEQUENCE LISTING

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Chartash, Elliot K
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Barchuk, William T
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Murtaza, Anwar
Salfeld, Jochen G
Fischkoff, Steven

<120> TREATMENT OF TNF α RELATED DISORDERS

<130> BPI-187

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<150> 60/397,275
<151> 2002-07-19

<150> 60/411,081
<151> 2002-09-16

<150> 60/417,490
<151> 2002-10-10

<150> 60/455,777
<151> 2003-03-18

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<400> 1
Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15
Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Gly Ile Arg Asn Tyr
20 25 30
Leu Ala Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile
35 40 45
Tyr Ala Ala Ser Thr Leu Gln Ser Gly Val Pro Ser Arg Phe Ser Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro
65 70 75 80
Glu Asp Val Ala Thr Tyr Tyr Cys Gln Arg Tyr Asn Arg Ala Pro Tyr
85 90 95
Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys

100

105

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<400> 2
 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Arg
 1 5 10 15
 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Asp Asp Tyr
 20 25 30
 Ala Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
 35 40 45
 Ser Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val
 50 55 60
 Glu Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr
 65 70 75 80
 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
 85 90 95
 Ala Lys Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Tyr Trp Gly
 100 105 110
 Gln Gly Thr Leu Val Thr Val Ser Ser
 115 120

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 <223> Xaa = Thr or Ala
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<400> 3
 Gln Arg Tyr Asn Arg Ala Pro Tyr Xaa
 1 5

<210> 4
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<220>
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 <222> 12
 <223> Xaa = Tyr or Asn

<223> Mutated human antibody

<400> 4

Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Xaa
1 5 10

<210> 5
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<400> 5
Ala Ala Ser Thr Leu Gln Ser
1 5

<210> 6
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<400> 6
Ala Ile Thr Trp Asn Ser Gly His Ile Asp Tyr Ala Asp Ser Val Glu
1 5 10 15
Gly

<210> 7
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<400> 7
Arg Ala Ser Gln Gly Ile Arg Asn Tyr Leu Ala
1 5 10

<210> 8
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<400> 8
Asp Tyr Ala Met His
1 5

<210> 9
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<400> 9

Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Ile	Gly
1															
														15	
Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Gly	Ile	Arg	Asn	Tyr
														20	30
Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys	Leu	Leu	Ile
														35	45
Tyr	Ala	Ala	Ser	Thr	Leu	Gln	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly
														50	60
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Ser	Leu	Gln	Pro
														65	80
Glu	Asp	Val	Ala	Thr	Tyr	Tyr	Cys	Gln	Lys	Tyr	Asn	Ser	Ala	Pro	Tyr
														85	95
Ala	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu	Ile	Lys					
														100	105

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<220>

<223> Mutated human antibody

<400> 10

Gln	Val	Gln	Leu	Val	Glu	Ser	Gly	Gly	Gly	Leu	Val	Gln	Pro	Gly	Arg
1															
														15	
Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser	Gly	Phe	Thr	Phe	Asp	Asp	Tyr
														20	30
Ala	Met	His	Trp	Val	Arg	Gln	Ala	Pro	Gly	Lys	Gly	Leu	Asp	Trp	Val
														35	45
Ser	Ala	Ile	Thr	Trp	Asn	Ser	Gly	His	Ile	Asp	Tyr	Ala	Asp	Ser	Val
														50	60
Glu	Gly	Arg	Phe	Ala	Val	Ser	Arg	Asp	Asn	Ala	Lys	Asn	Ala	Leu	Tyr
														65	80
Leu	Gln	Met	Asn	Ser	Leu	Arg	Pro	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
														85	95
Thr	Lys	Ala	Ser	Tyr	Leu	Ser	Thr	Ser	Ser	Ser	Leu	Asp	Asn	Trp	Gly
														100	110
Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser							
														115	120

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<400> 11

Gln	Lys	Tyr	Asn	Ser	Ala	Pro	Tyr	Ala
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								5

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<400> 12
Gln Lys Tyr Asn Arg Ala Pro Tyr Ala
1 5

<210> 13
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<220>
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<400> 13
Gln Lys Tyr Gln Arg Ala Pro Tyr Thr
1 5

<210> 14
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<212> PRT
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<220>
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<400> 14
Gln Lys Tyr Ser Ser Ala Pro Tyr Thr
1 5

<210> 15
<211> 9
<212> PRT
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<220>
<223> Mutated human antibody

<400> 15
Gln Lys Tyr Asn Ser Ala Pro Tyr Thr
1 5

<210> 16
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<220>
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<400> 16
Gln Lys Tyr Asn Arg Ala Pro Tyr Thr
1 5

<210> 17
<211> 9
<212> PRT
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<220>
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<400> 17
Gln Lys Tyr Asn Ser Ala Pro Tyr Tyr
1 5

<210> 18
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<212> PRT
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<220>
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<400> 18
Gln Lys Tyr Asn Ser Ala Pro Tyr Asn
1 5

<210> 19
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<220>
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<400> 19
Gln Lys Tyr Thr Ser Ala Pro Tyr Thr
1 5

<210> 20
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<400> 20
Gln Lys Tyr Asn Arg Ala Pro Tyr Asn
1 5

<210> 21
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<400> 21
Gln Lys Tyr Asn Ser Ala Ala Tyr Ser
1 5

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<400> 22
Gln Gln Tyr Asn Ser Ala Pro Asp Thr
1 5

<210> 23
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<220>
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<400> 23
Gln Lys Tyr Asn Ser Asp Pro Tyr Thr
1 5

<210> 24
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<400> 24
Gln Lys Tyr Ile Ser Ala Pro Tyr Thr
1 5

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<400> 25
Gln Lys Tyr Asn Arg Pro Pro Tyr Thr
1 5

<210> 26
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<220>
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<400> 26
Gln Arg Tyr Asn Arg Ala Pro Tyr Ala
1 5

<210> 27
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<400> 27
Ala Ser Tyr Leu Ser Thr Ser Ser Leu Asp Asn
1 5 10

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<400> 28
Ala Ser Tyr Leu Ser Thr Ser Ser Leu Asp Lys
1 5 10

<210> 29
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<220>
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<400> 29
Ala Ser Tyr Leu Ser Thr Ser Ser Leu Asp Tyr
1 5 10

<210> 30
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<220>
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<400> 30

Ala Ser Tyr Leu Ser Thr Ser Ser Leu Asp Asp
1 5 10

<210> 31
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<400> 31
Ala Ser Tyr Leu Ser Thr Ser Phe Ser Leu Asp Tyr
1 5 10

<210> 32
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<220>
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<400> 32
Ala Ser Tyr Leu Ser Thr Ser Ser Ser Leu His Tyr
1 5 10

<210> 33
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<400> 33
Ala Ser Phe Leu Ser Thr Ser Ser Ser Leu Glu Tyr
1 5 10

<210> 34
<211> 12
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<220>
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<400> 34
Ala Ser Tyr Leu Ser Thr Ala Ser Ser Leu Glu Tyr
1 5 10

<210> 35
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<400> 35

Val Ser Tyr Leu Ser Thr Ala Ser Ser Leu Asp Asn
1 5 10

<210> 36

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Mutated human antibody

<400> 36

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atcacttgc gggcaagtca gggcatcaga aattacttag cctggtatca gcaaaaacca 120
gggaaagccc ctaagctcct gatctatgct gcatccactt tgcaatcagg ggtcccatct 180
cggttcagtg gcagtggtac tgggacagat ttcaactctca ccatcagcag cctacagcct 240
gaagatgttca aacttatta ctgtcaaagg tataaccgtg caccgtatac ttttggccag 300
gggaccaagg tggaaatcaa a 321

<210> 37

<211> 363

<212> DNA

<213> Artificial Sequence

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<400> 37

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tcctgtgcgg cctctggatt caccttgat gattatgcca tgcactgggt cccgcaagct 120
ccagggaaagg gcctggaatg ggtctcagct atcacttgta atagtggta catagactat 180
gcggactctg tggagggccg attcaccatc tccagagaca acgccaagaa ctccctgtat 240
ctgcaaatgaa acagtctgag agctgaggat acggccgtat attactgtgc gaaagtctcg 300
taccttagca ccgcgtcctc ctttgactat tggggccaag gtaccctggt caccgtctcg 360
agt 363